

Amendments to the Specification

Please replace the paragraph at page 9, lines 19 through 25 with the following amended paragraph:


Fig. 2B is a block diagram of a network 200b that includes a wireless link. As shown, the PC-200 205 is coupled to a wireless modem 245 by a first link 220. The wireless modem 245 includes a wireless modem (not shown) and a compressor/decompressor 217. The wireless modem 245 is coupled to a base transceiver station (BTS) 250, sometimes referred to as a base station, by a wireless link, link2 230. The BTS 250 includes a compressor/decompressor 217. The BTS 250 is coupled to other network devices across the first link 220.

Please replace the paragraph at page 12, lines 22 through 29 with the following amended paragraph:

Fig. 6A is a block diagram of an embodiment of a structure 600 executing in one or more devices of a data communication network (e.g., network 100, 200a, 200b). The structure 600 includes a first link-220 220a across which uncompressed protocol data units (PDU) are transmitted. A receiver 605 receives the protocol data unit. The receiver 605 forwards the received PDU to a filter/compressor unit 608, which compresses the PDU according to the principles of the present invention. The filter/compressor unit 608 produces a compressed PDU, which is indicated as PDU'. The PDU' is received by a software transmitter 620, which transmits the PDU' to a second link 230.

Please replace the paragraph at page 19, lines 6 through 10 with the following amended paragraph:

Fig. 10 is a flow diagram of an embodiment of the process 1000 executed by the protocol filter 610 and compressor 615 of Fig. 6A. The process-100 1000 begins in step 1005. The protocol filter 610 associates a media type with the packet in step 1010. The protocol filter 610 then scans the compression disable table 635 (Fig. 6C) in step 1015 to determine if the media type associated with the data packet is compressible.



Please replace the paragraph at page 19, lines 11 through 19 with the following amended paragraph:

In step 1020, the protocol filter 610 determines if a match was found from among the entries in the compression disable table 635. If a match was found, then, in step 1025, the protocol filter 610 sets the state of the compressor state variable to disable the compression for that particular packet. If a match was not found in step 1020, then in step 1030, the protocol filter 610 allows compression to occur for that packet by setting the compressor state variable to “enable”. Following steps 1025 and 1030, the data compression occurs during step 1035 based on the state of the compressor state variable, as determined by steps 1025 and 1030. After data compression has taken place, then the process 1000 ends in step 1040.

Please replace the paragraph at page 21, lines 12 through 18 with the following amended paragraph:

After determining the media type in step 1235, the process 1200 compares during step 1240 the media type to the entries in the stream association table 905 to determine if the HTTP webstream 900 (Fig. 9) already knows how to process the data in the data packet. If the process 1200 determines that the data packet does not belong to a stream in the HTTP webstream 900, then the process 1200 creates a new object entry in the stream association table 905 in step 1245. Processing continues in step 1250 to determine if the data type is compressible.